



AIRSPEED SWITCH

MODEL NUMBER

PDC1-1B-25

PDC1-1B-35

PART NUMBER

804-50

804-58

OVERHAUL MANUAL WITH ILLUSTRATED PARTS LIST

**34-14-02
1 APRIL 1976**

Sierra[®] ENGINEERING CO.
OVERHAUL MANUAL WITH IPL
PN 804-50 AND 804-58

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RECORD OF REVISIONS

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SERVICE BULLETIN LIST

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I. DESCRIPTION AND OPERATION

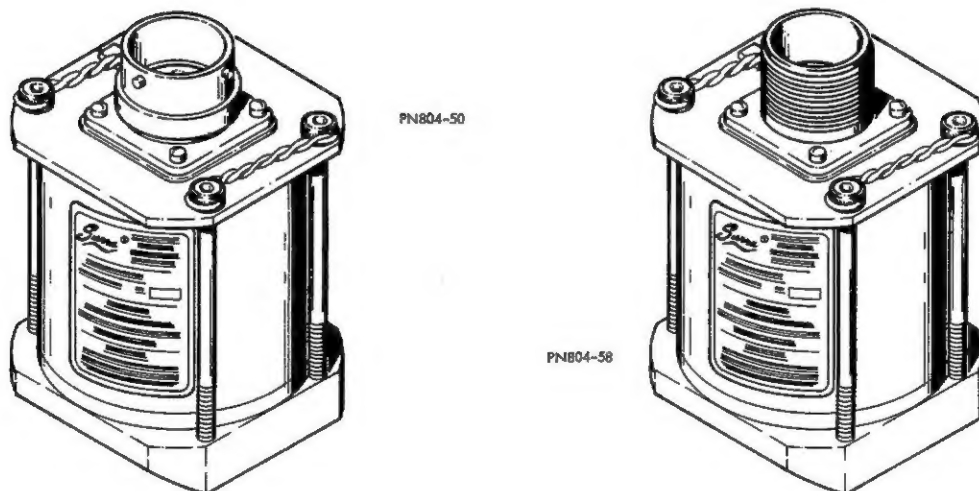
A. Description (see figure 1.)

- (1) The airspeed switch is a pressure-actuated electrical switch.
- (2) The pitot and static ports, actuating mechanism, switch, electrical wiring, and receptacle are assembled into a single compact unit.
- (3) Identification of the pitot and static ports is metal stamped or engraved on the base plate.

B. Operation.

- (1) The airspeed switch breaks one electrical circuit and makes a second electrical circuit at the pre-determined airspeed.
- (2) Operation of the airspeed switch is a function of pressure differential between the pitot and static pressures supplied by the aircraft's airspeed system. Operation of the airspeed switch is entirely automatic, having no over-ride or manual control.

C. Leading particulars for the airspeed switch are contained in Table I.



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AIRSPEED SWITCH PN 804-50 AND 804-58
FIGURE 1

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LEADING PARTICULARS

TABLE I

ITEM	PN 804-50	PN 804-58
Overall Dimensions:		
Height		
Width or Depth	2.5 inches	2.5 inches
Weight (maximum)	18.0 ounces	18.0 ounces
Operating Temperature Range:	0 to 50°C	0 to 50°C
Altitude Range:	-1,000 to 50,000 feet	-1,000 to 50,000 feet
Current Rating at 18.0 to 29.5 VDC:	5.0 amperes	5.0 amperes
Electrical Connector:	MS24264R16B10P7	MS3102E16-10P
Pitot Port:	MS33649-4	MS33649-4
Static Port:	MS33649-5	MS33649-5
Functional Characteristics:		
Actuation upon airspeed increase;	before 231 knots	before 272 knots
Reset upon airspeed decrease (with minimum differential of 7 knots);	before 219 knots	before 260 knots
Proof pressure	15.77 inches Hg (530 knots at sea level)	15.77 inches Hg (530 knots at sea level)
Maximum leakage rate for a 60-second period with pitot and static ports connected, and an air pressure of 15.00 inches of mercury locked into unit.	0.05 inch	0.05 inch

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2. DISASSEMBLY

A. General.

- (1) Disassembly instructions given herein presume that complete overhaul of the airspeed switch is to be accomplished. In some instances, however, partial equipment overhaul or overhaul of individual subassemblies only may be required. In this event, disassembly shall be conducted only to the extent necessary to accomplish removal of affected components and parts.
- (2) Prior to initiating disassembly operations, personnel shall carefully read all instructions and study the exploded view illustration.

B. Disassembly (refer to figure 7).

- (1) If nameplate (3, -4) is damaged or illegible, remove by peeling off of housing shell (28).
- (2) Unscrew plug (5) and remove and discard packing (6).
- (3) Remove safety wire and remove screws (7). Note method of safety-wiring for reassembly.
- (4) Carefully lift top-plate subassembly (-9, 10) to access wiring to receptacle (22, 23). Identify and tag each wire and unsolder from receptacle (22, -23).

NOTE: It is not necessary to unsolder the grounding wire on receptacle (22).

- (5) Remove and discard packing (8).
- (6) Use a soldering iron to heat screw (11) until the adhesive is softened, then remove screw (11) and washer (14).
- (7) Use a soldering iron to heat screws (16, -19) until adhesive is softened, then remove screws (16, -19), receptacle (22, -23), and gasket (24, -25). Discard gasket (24, -25).
- (8) Remove housing shell (28).
- (9) Remove and discard packing (29).

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- (10) Use a soldering iron to heat screws (31) until the adhesive is softened, then remove screws (31) and list switch mount subassembly (-30) clear of actuator (54).
- (11) Remove screws (35), washers (38), and deck spacers (39) to remove terminal deck preassembly (-34).
- (12) Identify and tag each wire and unsolder from terminal posts (41). Remove retainer rings (40) and pull terminal posts (41) out of terminal plate (42).
- (13) Use a soldering iron to heat overtravel stop bushing (43) until adhesive is softened, then unscrew overtravel stop bushing (43) from switch and plate preassembly (-44).
- (14) Flatten tabs of tab washers (47). Use a soldering iron to heat screws (45) until adhesive is softened, then remove screws (45) and tab washers (47).
- (15) Remove sine switch (48) and spacers (49) or washers (-50, -51) from switch mount plate (52).
- (16) Unscrew capsule and actuator subassembly (-53) from base-plate subassembly (-57).
- (17) Do not attempt to unscrew actuator (54) from capsule (55). These items are epoxy-cemented together and must be treated as a single unit.
- (18) Remove and discard packing (56).
- (19) Use a soldering iron to heat screws (58) until adhesive is softened, then remove screws (58) and switch mount spacers (61).
- (20) Do not attempt to unscrew bushing (62) from base-plate preassembly (63). These items are epoxy-cemented together and must be treated as a single unit.

3. CLEANING

WARNING: VOLATILE CLEANING AGENTS ARE BIOLOGICALLY TOXIC, AND SHALL BE USED ONLY IN A WELL-VENTILATED AREA, REMOVE FROM VICINITY OR ELEVATED TEMPERATURE OR OPEN FLAME. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN AND INHALATION OF VAPORS. DO NOT SMOKE IN PRESENCE OF THESE MATERIALS.

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CAUTION: DRY CLEANING SOLVENT MAY CHEMICALLY ATTACK RUBBER, PLASTIC OR COMPOSITION PARTS. USE OF SOLVENT MUST BE LIMITED, TO AVOID DETERIORATION OF VULNERABLE AREAS.

- A. Clean all metallic parts by wiping with a cloth moistened with dry cleaning solvent (see Table 2). Keep a protective cap over the capsule opening. Denote particular attention to internal areas, crevices and threaded parts.
- B. Use a medium bristle brush (see Table 2) or swab dipped in methyl ethyl ketone (see Table 2) to remove stubborn deposits of adhesives or bonding agents.
- C. Wash plastic surfaces with a mild detergent solution (see Table 2) in soft water. Rinse cleaned parts in clear soft water.
- D. Dry all parts thoroughly with dry compressed air or a clean lint-free cloth.

CAUTION: DO NOT DIRECT COMPRESSED AIR INTO CAPSULE OPENING.

CLEANING MATERIALS

TABLE 2

IDENTIFICATION	SOURCE	USAGE
<u>NOTE:</u> Equivalent substitutes may be used for listed items.		
Medium bristle brush	Commercially available	Threaded parts
Dry Cleaning Solvent Federal Spec P-D-680	Commercially available	Metallic components
Absorbent cloth wipers	Commercially available	All details
Methyl ethyl ketone	Commercially available	Metallic components

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4. INSPECTION/CHECK

A. General.

- (1) Visually inspect all parts under a strong light.
- (2) Use a magnifying glass or some means of magnification.
- (3) Inspect all threaded parts, including heli-coils, for burrs, cross-threading, or stripped threads.

B. Detail Inspection (refer to Figure 7).

- (1) Inspect nameplate (3, -4) for legibility.
- (2) Inspect receptacle (22, -23) for corrosion or damaged pins.
- (3) Inspect all electrical wiring for damaged or frayed insulation, signs of overheating, or corrosion at solder terminations.
- (4) Inspect housing shell (28) for dents or deformation.
- (5) Inspect sine switch (48) contact for contamination, arcing, wear or degradation.
- (6) Inspect capsule (55) for cracks, damage, or deformation. Particularly note the weld seam for damage or failure.
- (7) Inspect top-plate (26, -27) and base-plate preassembly (63) for damage or distortion. Inspect that markings on base-plate preassembly (63) are legible.

5. REPAIR

A. General.

- (1) Replace all parts that are damaged beyond minor repair.
- (2) Replace all packings and gaskets at each overhaul.
- (3) Replace self-clinching cable tie (Sierra Engineering Co., PN 00-5379) if removed during overhaul.
- (4) Replace any screw that has damaged, crossed, or stripped threads.

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- (5) Repair internally threaded parts, excluding parts using heli-coils, by recutting damaged internal threads using a chasing tap of appropriate thread size. Thoroughly clean repaired threads and adjacent surfaces as directed in CLEANING.

B. Detailed Repair (refer to figure 7).

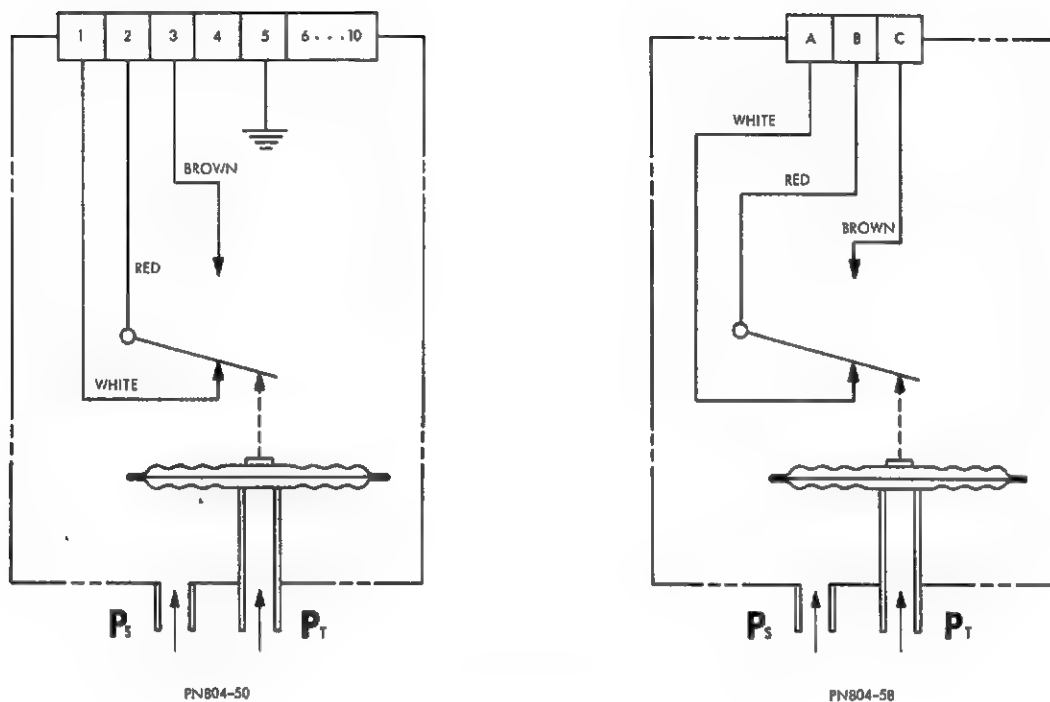
- (1) If grounding wire of top-plate subassembly (9) must be replaced, use teflon insulated electrical wire (MIL-W-16878) AWG 20, stranded copper, color black. Cut wire to approximately 1-1/2-inch length and strip insulation, both ends, approximately 13/64 inch. Solder one end to receptacle and other end to soldering lug (15). Refer to electrical schematic (figure 2) for termination.
- (2) If wiring to terminal deck (-34) is defective, replace using teflon insulated electrical wire (MIL-W-16878) AWG 20, stranded copper, color to match replaced wire. Cut new wire to approximately 4-1/4-inches length and strip insulation, both ends, approximately 1/4 inch. Refer to electrical schematic (figure 2) for terminations.
- (3) If any heli-coil inserts require removal and replacement, refer to Heli-Coil Bulletin 900 (Heli-Coil Products Division, Mite Corporation, Danbury, Conn., 06810) for instructions. Refer to Table 3 for appropriate part number.

6. ASSEMBLY (refer to figure 7)

- A. If replacing new base-plate (63) and bushing (62); sparingly apply epoxy cement (refer to Table 4) to the first two or three threads of the tapped center cavity of base-plate (63), and to the entire thread portion of bushing (62). Screw bushing (62) into base-plate (63) using pin wrench part number 804-603 and holding fixture part number 804-602. Wipe off any excess epoxy cement using a clean cloth moistened with methyl ethyl ketone (MEK). Allow epoxy cement to cure at room temperature for at least 16 hours.
- B. Coat threads of screws (58) with Loctite "C" (refer to Table 4) and use to secure switch mount spacers (61) to base-plate (63).
- C. Slip new packing (56) on capsule (55).
- D. If replacing new actuator (54) and capsule (55); coat threads of actuator (54) with epoxy cement and screw actuator (54) into capsule (55).
- E. Screw capsule and actuator subassembly (-53) into base-plate subassembly (-57).

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NOTE: THE UNITS ARE SHOWN AT
ZERO PRESSURE DIFFERENTIAL

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ELECTRICAL SCHEMATIC
FIGURE 2

- F. Install spacers (49), or washers (-50, -51), and sine switch (48) on switch mount plate (52). Install tab washers (47) on screws (45) and coat threads of screws with Loctite "A" (refer to Table 4). Secure sine switch (48) and spacers (49) to switch mount plate (52) using screws (45). Bend up inside end of tab washers (47) to lock screws (45).
- G. Screw overtravel stop bushing (43) into switch and plate preassembly (-44).
- H. Install terminal posts (41) in terminal plate (42) and secure with retainer rings (40). Install retainer rings (40) with sharp-edged punched-sides facing upward.

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HELI-COIL DATA

TABLE 3

ITEM (FIGURE 7)	USE	HELI-COIL PN	SECO PN
Top-plate subassembly (9, -10)	To attach receptacle (22, -23) and lut (15)	3585-04CN-0224	19056-3
Bushing (20)	To secure capsule (55)	3591-3CN-0285	19056-47
Base-plate preassembly (63)	To secure adjustment access plug (5)	3591-3CN-0190	19056-46
	To secure switch mount spacers (61)	3585-04CN-0280	00-5449
	To secure screws (7)	3585-06CN-0207	19056-5

ASSEMBLY MATERIALS

TABLE 4

ITEM	PART NUMBER	SOURCE	REFERENCE PARAGRAPH
Epoxy Cement	00-1169	Sierra Engineering Co. Sierra Madre, CA	6A, 6D
Loctite "C"	81001	American Sealant Co. Hartford 6, Conn.	6B, 6G, 6O
Loctite "A"	81000	American Sealant Co. Hartford 6, Conn.	6F, 6K, 6P
Solder	81015	Sierra Engineering Co. Sierra Madre, CA	6I
Cable Tie, Self-Clinching	00-5379	Sierra Engineering Co. Sierra Madre, CA	6I
Safetywire	MS20995C20	Any Government approved source	6S
Methyl Ethyl Ketone	MIL-M-81351 or equivalent	Any Government approved source	6A

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- I. Solder wire leads to terminal posts (41) using solder part number 81015. Refer to electrical schematic, Figure 2, for wiring terminations. Secure wiring to terminal plate (42) using cable tie (refer to Table 4). Cut off excess cable tie.
- J. Secure terminal deck preassembly (-34) to switch mount plate (52) using deck spacers (39), washers (38), and screws (35).
- K. Install switch-mount subassembly (-30) over capsule and actuator subassembly (-53). Coat threads of screws (31) with Loctite "A", and use to secure switch mount subassembly (-30) to base-plate subassembly (-57).
- L. Refer to Fits and Clearances for initial calibration and overtravel stop adjustment. Upon completion of these two procedures, apply Loctit "C" to the exposed threads of overtravel stop bushing (43) and allow to cure at room temperature.
- M. Install new packing (29) on base-plate subassembly (-57).
- N. Install housing shell (28).
- O. Coat threads of screws (16, -19) with Loctite "C", and use to secure new gasket (24, -25) and receptacle (22, -23) to top-plate (26, -27).
- P. Coat threads of screw (11) with Loctite "A", and use with washer (14) to secure soldering lug (15) to top-plate (26).
- Q. Install new packing (8) on top-plate (26, -27).
- R. Solder wire leads to receptacle (22, -23) using solder part number 81015. Refer to electrical schematic, figure 2, for wiring terminations.
- S. Install top-plate subassembly (-9, -10) onto housing shell (28) and secure using screws (7). Safetywire (refer to Table 4) screws (7) in the manner noted during disassembly.
- T. Install new packing (6) on plug (5) and install in base-plate subassembly (-57).
- U. If nameplate (3, -4) was removed, install new nameplate (3, -4) by peeling off protective backing and pressing nameplate (3, -4) firmly on housing shell (28).

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7. FITS AND CLEARANCES

A. General.

- (1) When performing the clearance adjustments and setting adjustments described in this section, a locally fabricated continuity light or ohm-meter may be used to indicate switch opening or closing.
- (2) Make all electrical connections to the terminal posts (41, figure 7) using leads equipped with alligator clips.

B. Initial calibration of part number 804-50.

- (1) Connect one continuity light across the red and white lead wires.
- (2) Connect another continuity light across the red and brown lead wires.
- (3) Connect the pitot pressure port (PT) to a pressure source similar to the manner shown in figure 4.
- (4) Slowly increase the pressure to the speed switch.
- (5) When the pressure reaches 35.96 inches of water (231 KNOTS) the switch must actuate. This is indicated by the continuity light across the red and white leads going out, while the continuity light across the red and brown leads coming on.
- (6) If the switch does not actuate at this pressure, adjust the capsule and actuator subassembly (-53, figure 7) using tool number 804-604. Turn the capsule and actuator subassembly until the continuity lights indicate switch actuation.
- (7) Slowly decrease the pressure to the speed switch.
- (8) Before the pressure reaches 32.22 inches of water (219 KNOTS), the continuity lights must indicate switch reset.
- (9) If the switch does not reset, adjust the sine switch (48, figure 7) using tool number 804-601.
- (10) Repeat steps (4) through (9) until the speed switch actuates and resets at the specified pressures.
- (11) Upon completion of initial calibration, sparingly apply Glyptal 1201B (Sierra Engineering Co. PN 81007) to the interface of the sine switch adjustment nut and its support in the airspeed switch.

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C. Initial calibration of part number 804-58.

- (1) Repeat steps (1) through (4) of paragraph 7B.
- (2) When the pressure reaches 50.44 inches of water (272 KNOTS) the switch must actuate. Actuation is indicated as described in paragraph 7B (5).
- (3) Repeat steps (6 and 7) of paragraph 7B.
- (4) Before the pressure reaches 45.92 inches of water (260 KNOTS), the continuity lights must indicate switch reset.
- (5) Repeat steps (9 through 11) of paragraph 7B.

D. Overtravel stop adjustment.

- (1) Repeat steps (3) through (5) of paragraph 7B, or steps (1) and (2) of paragraph 7C as applicable.
- (2) Adjust overtravel stop bushing (43, figure 7) to the clearance shown on figure 3 using tool number 804-604.

8. TESTING

A. Contact resistance test.

- (1) Connect a model 2795 volt-ohm-meter (Simpson Electric Co., Chicago, III 60644), or equivalent, to receptacle pins 1 and 2 for part number 804-50, or pins A and B for part number 804-58.
- (2) Measure the electrical resistance between the two pins with the switch under room ambient conditions. The electrical resistance must not exceed 0.25 ohm.

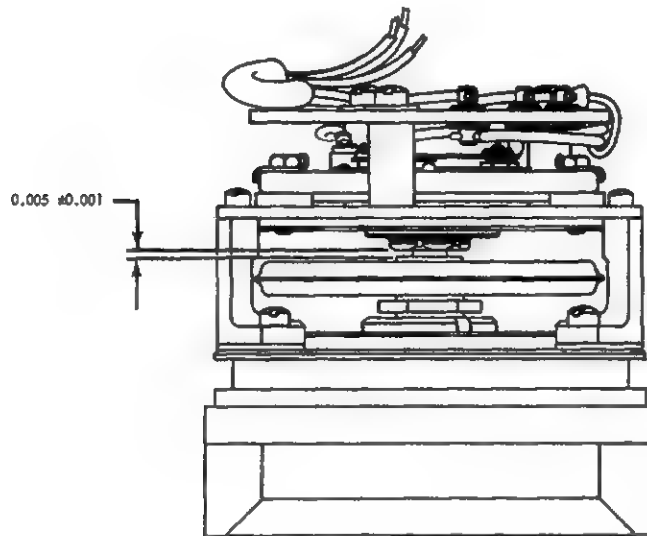
B. Dielectric strength test.

- (1) Connect the active test lead of a model HD103 Hipot Tester (Hipotronics Inc., Brewster, NY 10509), or equivalent, to pins 1, 2, and 3 for part number 804-50, or pins A, B, and C for part number 804-58.
- (2) Connect ground lead of Hipot Tester to pin 5 and screw (7, figure 7) for part number 804-50, or to screw (7) for part number 804-58.
- (3) Adjust the Hipot Tester to 1500+25 VAC at 60 Hertz, and apply voltage for a 60-second duration.

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- (4) Examine for evidence of arcing or dielectric breakdown. There shall be no arcing or breakdown allowable.



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OVERTRAVEL STOP ADJUSTMENT
FIGURE 3

- C. Insulation resistance test.
- (1) Prepare the same electrical setup as called for in paragraphs 8B (1) and (2); substituting as insulation tester a "megger" (James G. Biddle Co., Philadelphia 7, Penn.).
 - (2) Adjust the insulation tester to 500+20 VDC, and apply voltage for a 30-second duration.
 - (3) Measure the insulation resistance. The insulation resistance must be at least 100 megohms.
- D. Functional performance test for part number 804-50.
- (1) Connect the airspeed switch to the test setup shown in figure 4.
 - (2) Without pressure applied, the electrical circuit between pins 1 and 2 must be closed and between pins 2 and 3 open.

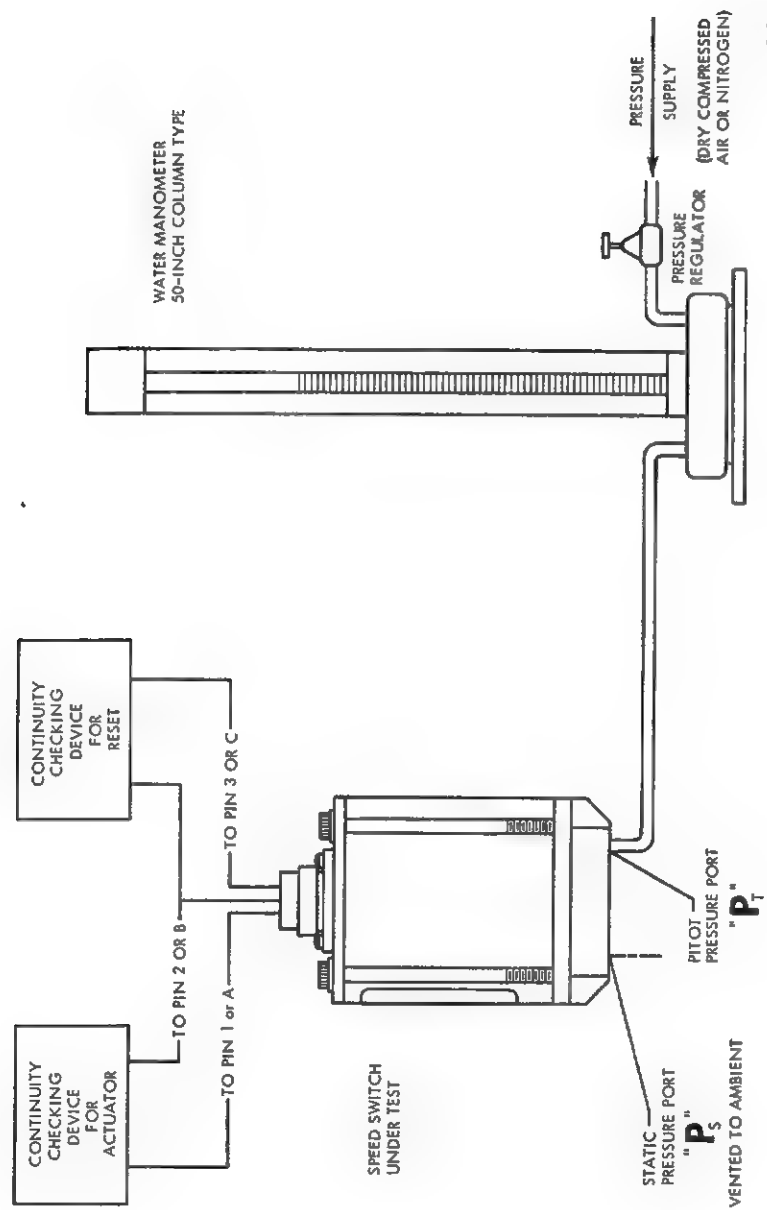
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- (3) Slowly adjust the pressure regulator to increase the pressure to the airspeed switch. When the pressure reaches 35.96 inches of water (231 KNOTS), the electrical circuit between pins 1 and 2 must open while the electrical circuit between 2 and 3 must close. This action verifies switch actuation at the correct airspeed.
 - (4) Slowly adjust the pressure regulator to decrease the pressure. Before the pressure reaches 32.22 inches of water (219 KNOTS), the electrical circuit between pins 1 and 2 must close while the electrical circuit between pins 2 and 3 must open. This verifies switch reset at the correct airspeed.
- E. Functional performance test for part number 804-58.
- (1) Connect the airspeed switch to the test setup shown in figure 4.
 - (2) Without pressure applied, the electrical circuit between pins A and B must be closed and between B and C must be open.
 - (3) Slowly adjust the pressure regulator to increase the pressure to the airspeed switch. When the pressure reaches 50.44 inches of water (272 KNOTS), the electrical circuit between pins A and B must be open while the electrical circuit between pins B and C must close. This action verifies switch actuation at the correct airspeed.
 - (4) Slowly adjust the pressure regulator to decrease the pressure. Before the pressure reaches 45.92 inches of water (260 KNOTS), the electrical circuit between pins A and B must close while the electrical circuit between pins B and C must open. This verifies switch reset at the correct airspeed.
- F. Proof pressure test.
- (1) Connect the airspeed switch to the test setup shown in figure 5.
 - (2) Slowly adjust the pressure regulator to increase the pressure to 15.77 +0.23 inches of mercury (530 KNOTS).
 - (3) Maintain the pressure for a period of at least 60 seconds.
 - (4) Adjust the pressure regulator to relieve the pressure, at a rate of approximately 2 inches of mercury per second, until the pressure is returned to room ambient.
 - (5) Repeat the functional performance test of paragraph 8D.

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ACTUATION AND RESET TEST SETUP
FIGURE 4

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G. Leakage test.

- (1) Connect the airspeed switch to the test setup shown in figure 5.
- (2) Slowly adjust the pressure regulator to increase the pressure to approximately 15.00 inches of mercury.
- (3) Close off the pressure regulator to trap the pressure within the air-speed switch and record the exact reading of the column of mercury (15.00 inches).
- (4) Maintain these conditions for a period of 60 seconds.
- (5) Record the exact reading of the column of mercury.
- (6) The difference between the reading recorded in step (3) and step (5) is the leakage rate and must not exceed 0.05 inch.

9. TROUBLE SHOOTING

Troubles that may occur and their probable causes and remedies are listed Table 5.

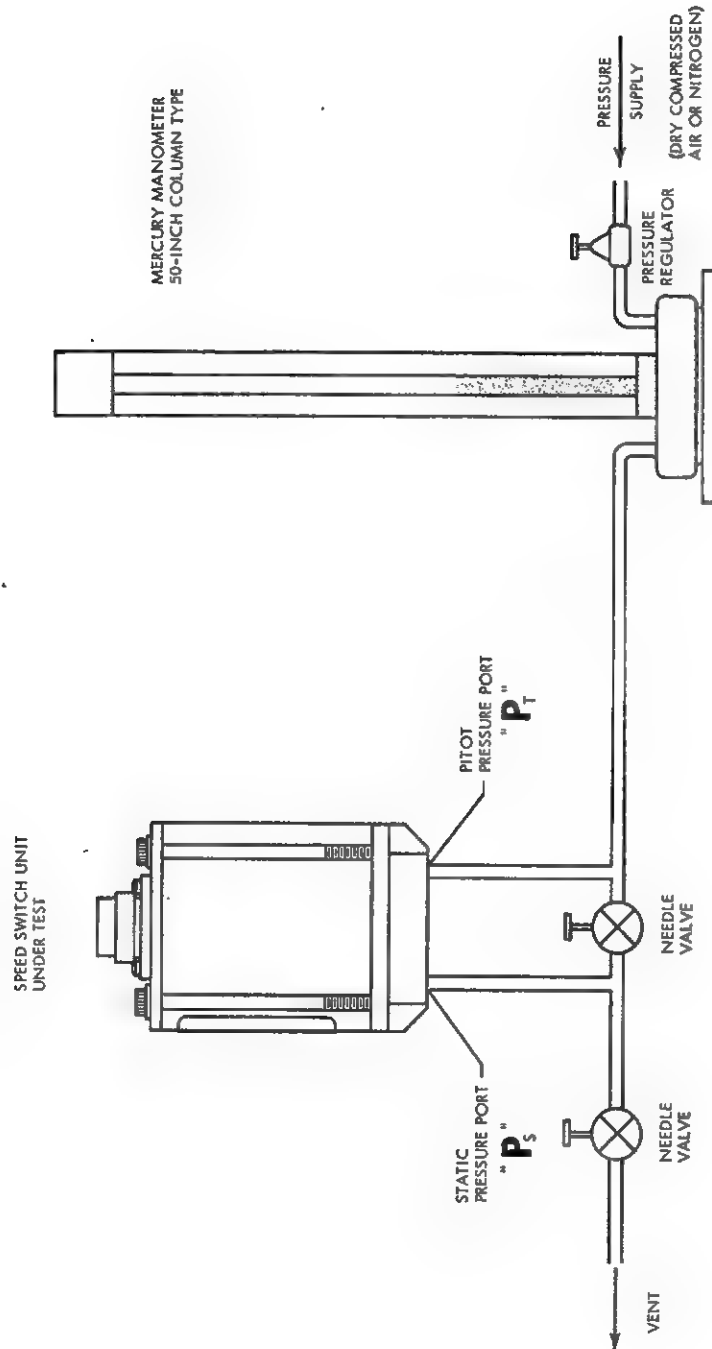
TROUBLE SHOOTING

TABLE 5

MALFUNCTION	PROBABLE CAUSE	CORRECTIVE ACTION
Unit fails to operate	Defective wiring	Check leads and connections for shorts and continuity.
	Defective electrical receptacle.	Check receptacle for defective insulation, and damaged pins.
	Ruptured capsule	Replace capsule subassembly.
Unit fails to operate in tolerance	Out of calibration	Remove adjustment access plug (5, figure 7). Perform functional performance test specified in TESTING. Use tool part number 804-605 to adjust capsule and actuator (-53) within limits specified.
	Leaky capsule	Replace capsule subassembly.

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PROOF PRESSURE AND LEAKAGE TEST SETUP
FIGURE 5

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10. STORAGE INSTRUCTIONS

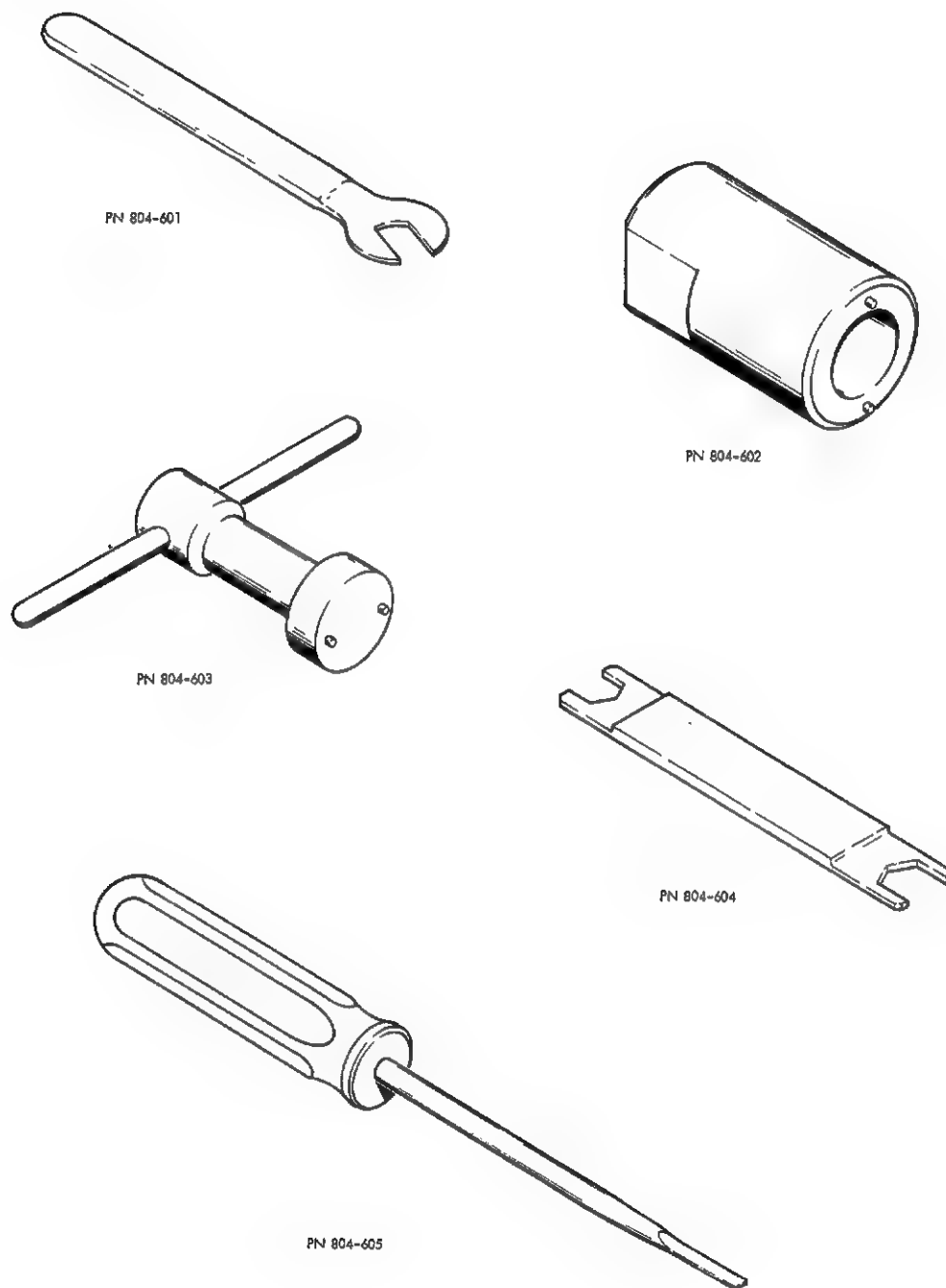
- A. Store the airspeed switch in its original shipping container, or a dry clean cardboard box.
- B. Install protective caps on all open fittings or electrical connectors.
- C. Identify contents on outside of container, noting date of overhaul and part number.
- D. Seal exterior of container with pressure-sensitive tape.
- E. Store container in an environment where the temperature extremes will not exceed -40°C to $+70^{\circ}\text{C}$.

11. SPECIAL TOOLS, FIXTURES AND EQUIPMENT

Special tools and fixtures required for overhaul of the speed switch are shown in figure 6.

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SPECIAL TOOLS
FIGURE 6

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12. ILLUSTRATED PARTS LIST

A. Introduction.

- (1) The illustrated parts list is intended for use in provisioning, storing, and issuing replaceable parts for the air-speed switch, and in identification of new and reclaimed parts.
- (2) When the part number is not known, look at the illustration and identify the part by appearance. Note the index number in the accompanying parts list to find the part number, the description, and quantity required for that application.
- (3) In the illustrated parts list, each assembly listed is followed immediately by a listing of its component parts, properly indented to show their relationship to the assembly. Parts are listed in general order of disassembly, with the exception of the attaching parts. Attaching parts are separated from other detail parts by a symbol "—*—". Parts listed to maintain breakdown generation only are so indicated by an explanation in parentheses following the description.
- (4) "Effect from to" code is used when two or more assemblies are listed in the same illustrated parts list. A code letter, ("A", "B", etc.) is assigned to each main assembly. All sub-components that are peculiar to a particular assembly are identified by the same code letter as the main assembly. If parts are common to all assemblies, the effect code column is left blank. The coding used in the illustrated parts list is as follows:

<u>ASSEMBLY PART NUMBER</u>	<u>CODE LETTER</u>
804-50	A
804-58	B

- (5) Quantities specified in the "Units per Assy" column are the total number of each part required per assembly or subassembly and are not necessarily the total used per the complete equipment.
- (6) Abbreviations used in the illustrated parts list are as follows:

ASSY	Assembly
FIG.	Figure

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NO.	Number
PN	Part Number
RF or REF	REference
SECO	Sierra Engineering Company

Vendors' parts used in the oxygen module assemblies and which are not altered by Sierra Engineering Company are listed by the vendor's part number, vendor's description of the part, the vendor's code listed in parentheses following the description. Vendors' coded symbols used in this publication are taken from Federal Supply Code of Manufacturers Cataloging Handbook H4-1, and consist of applicable code symbol preceded by the letter "V". Following is a numerically arranged list of vendor codes used in this publication. This list also includes the vendor code for Sierra Engineering Company. However, this code identification has not been included in the illustrated parts list. The absence of a code following a part description in the illustrated parts list means that the item is a Sierra Engineering part.

<u>CODE</u>	<u>VENDOR'S NAME AND ADDRESS</u>
88044	Aeronautical Standards Group Depart. of the Navy and Air Force
92114	Sierra Engineering Company 123 E. Montecito Avenue Sierra Madre, CA 91024
96906	Military Standards Promulgated by Standardization Division Directorate of Logistics DSA

B. Illustrated Parts List.

This illustrated parts list does not list or illustrate parts which lose their identity by being permanently welded or riveted to other pieces, and items made from raw (bulk) stocks. A dash before an item number indicates the item is not illustrated on the exploded view illustration.

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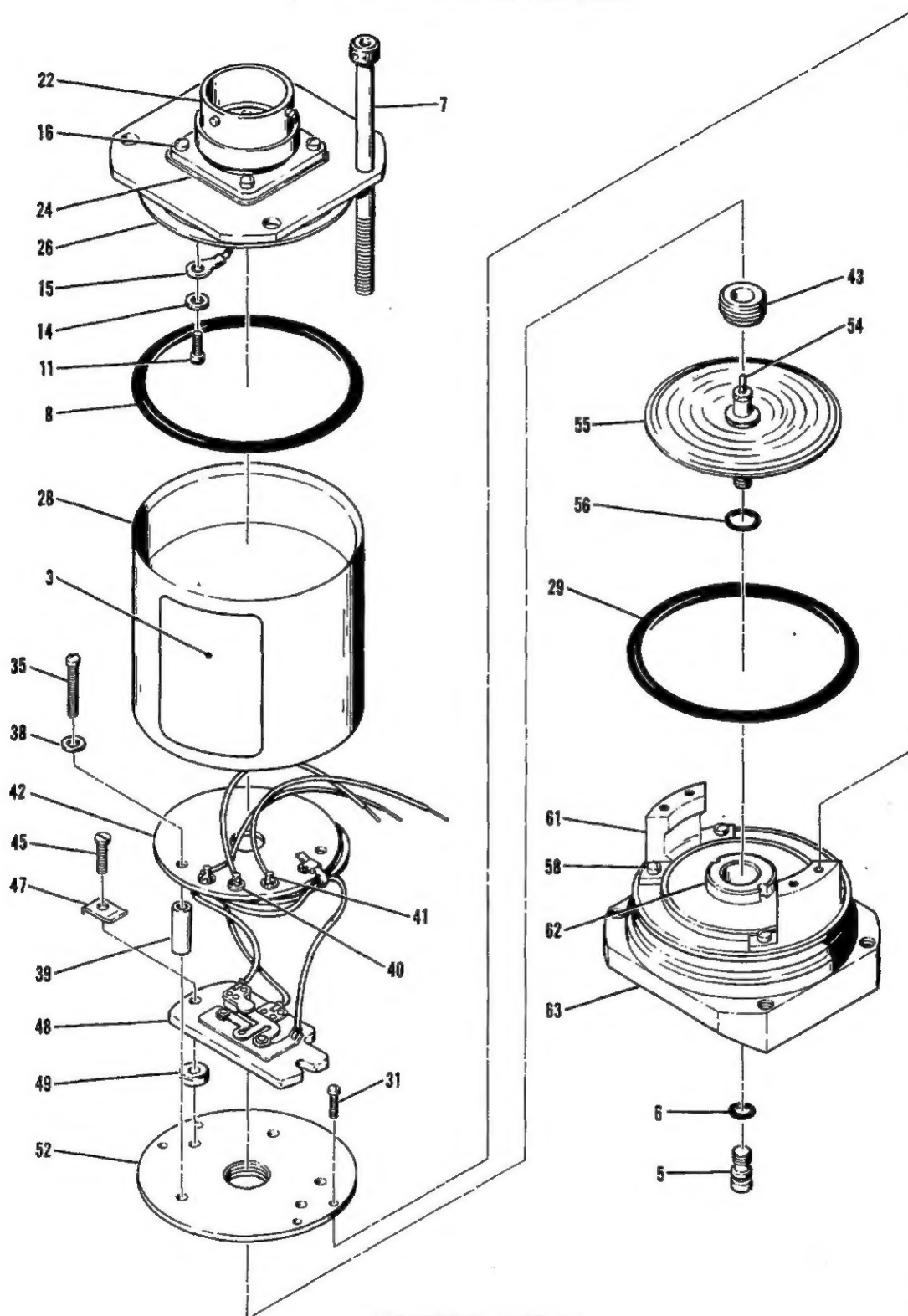
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FIG ITEM	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	EFFECT FROM TO	UNITS PER ASSY
7-1	804-50								SWITCH-AIRSPEED-MODEL PDC1-1B-25	A	RF
-2	804-58								SWITCH-AIRSPEED-MODEL PDC1-1B35	B	RF
3	804-105								. NAMEPLATE	A	1
-4	804-112								. NAMEPLATE	B	1
5	17826								. PLUT-ADJUSTMENT ACCESS		1
6	MS29513-006								. PACKING-PREFORMED (V96906)		1
7	804-25								. SCREW		4
8	MS29513-226								. PACKING-PREFORMED (v96906)		1
-9	804-54								. TOP-PLATE-SUB-ASSY	A	1
-10	804-59								. TOP-PLATE-SUB-ASSY	B	1
11	AN500AD4-4								. . SCREW (v88044)	A	1
-12	AN500D4-4								. . SCREW (Alternate for item 11) (V88044)	A	RF
-13	AN500-4-4								. . SCREW (Alternate for item 11) (V88044)	A	RF
14	AN960C4L								. . WASHER (V88044)	A	1
15	00-5478-4								. . LUG-SOLDERING	A	1
16	AN500AD4-5								. . SCREW (V88044)	A	4
-17	AN500D4-5								. . SCREW (Alternate for item 16) (V88044)	A	RF
-18	AN500-4-5								. . SCREW (Alternate for item 16) (V88044)	A	RF
-19	AN500AD4-6								. . SCREW (V88044)	B	4
-20	AN500D4-6								. . SCREW (Alternate for item -19) (V88044)	B	RF
-21	AN500-4-6								. . SCREW (Alternate for item -19) (V88044)	B	RF
22	MS24264R16 B10P7								. . RECEPTACLE (V96906)	A	1
-23	MS3102E16- 10P								. . RECEPTACLE (V96906)	B	1
24	14318-4								. . GASKET	A	1
-25	14318-2								. . GASKET	B	1
26	804-49								. . TOP-PLATE-MODIFIED	A	1
-27	804-35-1								. . TOP-PLATE	B	1
28	804-24								. HOUSING SHELL		1
29	MS29513-226								. PACKING-PREFORMED (V96906)		1
-30	804-17								. SWITCH-MOUNT-SUB-ASSY		1
									ATTACHING PARTS		
31	AN500AD2-3								. SCREW (V88044)		4
-32	AN500D2-3								. SCREW (Alternate for item 31) (V88044)		RF
-33	AN500-2-3								. SCREW (Alternate for item 31) (V88044)		RF
									-----*		
-34	804-19								. . DECK-TERMINAL - PRE-ASSY		1

- Indicates item not illustrated

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AIRSPEED SWITCH
FIGURE 7

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FIG ITEM	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	EFFECT FROM TO	UNITS PER ASSY
									ATTACHING PARTS		
7 35	AN500AD4-10	.	.	.					SCREW (V88044)		3
-36	AN500D4-10	.	.	.					SCREW (Alternate for item 35)		RF
-37	AN500-4-10	.	.	.					SCREW (Alternate for item 35)		RF
38	AN960C4L	.	.	.					WASHER		3
39	804-45	.	.	.					SPACER-DECK		3
									-----*		
40	MS16633-9	.	.	.					RING-RETAINER (V96906) (SECO PN00-5380)		3
41	804-47	.	.	.					POST-TERMINAL		3
42	804-46	.	.	.					PLATE-TERMINAL		1
-43	804-48	.	.	.					BUSHING-OVERTRAVEL STOP		1
-44	804-18	.	.	.					SWITCH AND PLATE-PRE ASSY		1
45	00-5146-2	.	.	.					SCREW-MACHINE-HEX HEAD		2
-46	00-5215	.	.	.					SCREW-MACHINE-HEX HEAD (Alternate for item 45)		RF
47	13232	.	.	.					WASHER-TAB		2
48	13293-12	.	.	.					SWITCH-SINE		1
49	804-44	.	.	.					SPACER-SWITCH		2
-50	AN960C4	.	.	.					WASHER (V88044) (two each plus one item -51 may be used in lieu of item 49)		RF
-51	AN960C4L	.	.	.					WASHER (V88044)		RF
52	804-43	.	.	.					PLATE-SWITCH MOUNT		1
-53	804-15	.	.	.					CAPSULE AND ACTUATOR - SUB-ASSY		1
54	804-52	.	.	.					ACTUATOR (Epoxy cemented to item 55)		1
55	17828	.	.	.					CAPSULE (Epoxy cemented to item 54)		1
56	MS29513-10	.	.	.					PACKING-PREFORMED (V96906)		1
-57	804-12	.	.	.					BASE-PLATE SUB-ASSY		1
58	AN500AD4-6	.	.	.					SCREW (V88044)		4
-59	AN500D4-6	.	.	.					SCREW (Alternate for item 58) (V88044)		RF
-60	AN500-4-6	.	.	.					SCREW (Alternate for item 58) (V88044)		RF
61	804-22-2	.	.	.					SPACER-SWITCH MOUNT		2
62	804-20	.	.	.					BUSHING (Epoxy cemented to item 63)		1
63	804-13	.	.	.					BASE-PLATE - PRE-ASSY		1

- Indicates item not illustrated

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